



KEOKEE

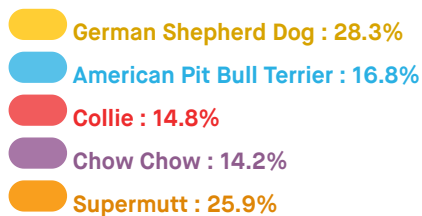


DNA Test Report

Test Date: September 4th, 2022

embk.me/keokee

BREED MIX



GENETIC STATS

Wolfiness: 2.1 % **HIGH**

TEST DETAILS

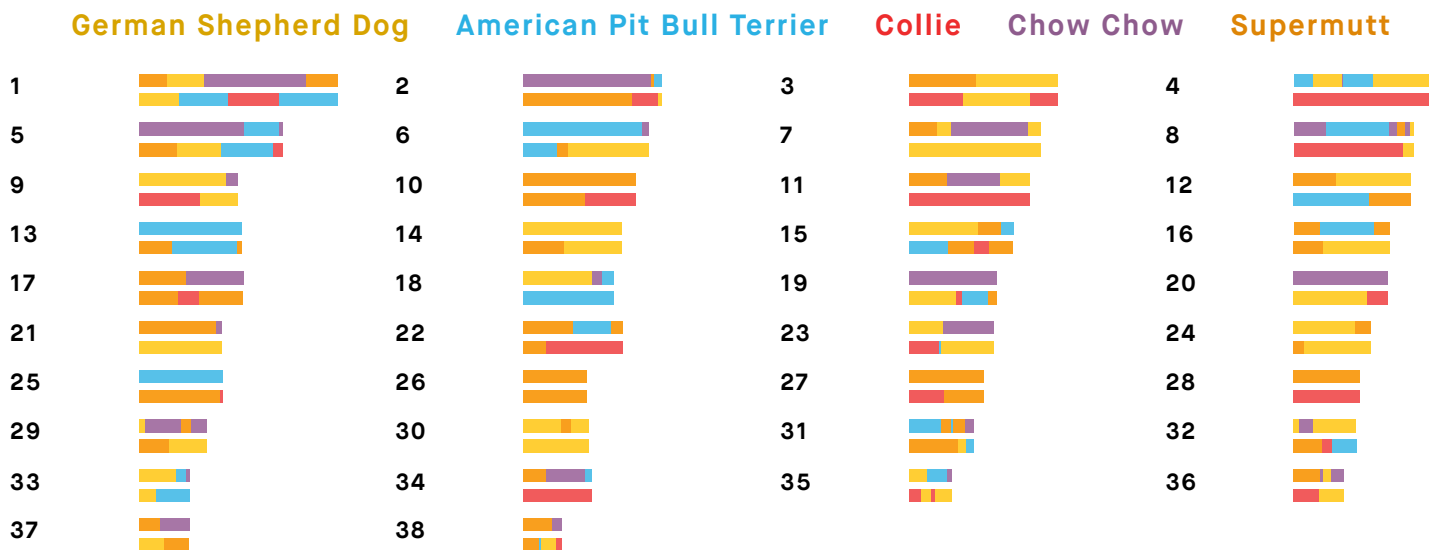
Kit number: EM-16774545

Swab number: 31211052001790

BREED MIX BY CHROMOSOME

Our advanced test identifies from where Keokee inherited every part of the chromosome pairs in her genome.

Breed colors:



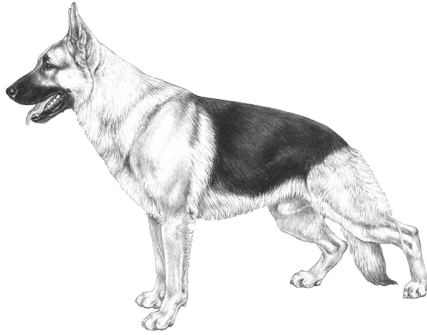
FAMILY TREE



Our algorithms predict this is the most likely family tree to explain Keokee's breed mix, but this family tree may not be the only possible one.



GERMAN SHEPHERD DOG



The German Shepherd dog is the second most popular dog breed in the United States, and the fourth most popular in the United Kingdom (where it is known as the Alsatian). This breed was standardized in Germany at the end of the 19th century from local dogs used for herding and livestock guarding. Their confidence, courageousness and keen sense of smell coupled with their notable intelligence make them highly suited to police work, military roles, and search and rescue. German Shepherds require regular physical and mental exercise and have a heavy shedding coat that comes in both short and long varieties. They were first recognized by the AKC in 1908 and later became fashionable as soldiers returning from WWI spoke highly of the German dogs and Hollywood popularized the breed with stars like Strongheart and Rin Tin Tin.

Fun Fact

Despite being sometimes called the "Alsatian wolf dog", German Shepherds are not true wolf dogs— they are 100% dog. Nevertheless, German shepherds were crossed with wolves in the past to form the Czechoslovakian and Saarloos wolfdog breeds. German Shepherds, along with other breeds and sled dogs, were also used in the creation of the Chinook breed.

RELATED BREEDS



White Shepherd
Sibling breed



Belgian Sheepdog
Cousin breed



Belgian Tervuren
Cousin breed



Belgian Malinois
Cousin breed



Dutch Shepherd
Cousin breed



Fun Fact

One of the most famous American Pit Bull Terriers is Pal, the dog who played the beloved Petey in *The Little Rascals*.

AMERICAN PIT BULL TERRIER

Few dogs are more recognizable than the American Pit Bull Terrier. While they originated in the British Isles and are descendants of the Mastiff-type dogs introduced to England in antiquity, the American Pit Bull Terrier was brought over to the United States by English immigrants in the 1800s. They quickly became one of the most popular and widespread breeds there. Though they are descended from the bull-fighting breeds of England and still have a scary sounding name, the American Pit Bull Terrier is a sweet, talented, and affectionate dog. American Pit Bull Terriers have been subject to a significant amount of controversy due to their tendency to fall prey to dog fighting rings and unscrupulous owners. Because of their high energy, strength, and eagerness to please, they have sometimes become popular for the wrong reasons. The truth is that American Pit Bull Terriers are best as family dogs—they tend to get along very well with children and enjoy the company of their family members. American Pit Bull Terriers can be tricky with other dogs, male or female, so it is best to do a lot of research before bringing an American Pit Bull Terrier into a home with other dogs. It will be a matter of personality and the individual dogs involved, so be sure to consult the shelter or breeder. However, it is much easier to introduce an American Pit Bull Terrier to other dogs when they are puppies. American Pit Bull Terriers have proven themselves to be multifaceted and multitalented dogs. They have served as search and rescue dogs and therapy dogs, and they excel at dog sports such as weight pulling and agility. They are working dogs, so they do require a decent amount of physical activity and thus are not always well-suited to apartment living. They prefer a suburban or rural home, but they can still thrive in the city. As long as they are given enough opportunity to run around, whether at a park or jogging with their beloved master, American Pit Bull Terriers can be very adaptable dogs. Due to some breed specific legislation, American Pit Bull Terriers are not allowed in certain countries and certain cities. It's important to check the local laws before welcoming one of these dogs into a home. If adopted responsibly, treated correctly, and properly

RELATED BREEDS



**American
Staffordshire
Terrier**
Sibling breed



**Staffordshire
Bull Terrier**
Cousin breed



COLLIE



Fun Fact

Lassie", arguably TV's most famous dog, was a Collie who helped make the breed even more popular during the 1940s and 1950s.

The Collie dog breed originated in Scotland, primarily developed as a herding dog. Today, the Collie still remains capable of driving sheep and cattle, but is also known for being a wonderfully loyal and intelligent family dog. The breed was propelled from humble rural farmlands to huge popularity among dog lovers in the mid 1800s, when Queen Victoria supposedly fell in love with the Collie's good looks and soft temperament. This is approximately when the purpose of the Collie shifted towards participating in shows as well as herding. Collies soon made their way to America where they became popular among the social elite, before the AKC recognized them as an official breed in 1885. The Collie's herding background makes this breed both intelligent and quick to learn. Collie's also boast great athleticism, possessing great strength and speed. The sweet and friendly nature of a Collie, combined with their loyalty and willingness to please their owner, makes this breed a popular family dog. While not being as energy intensive as the Border Collie, this breed requires regular physical and mental exercise. The Collie's otherwise quiet nature may shift to a barking nuisance if left alone and not entertained. A smooth-coated Collie requires minimal care while a rough Collie requires brushing every other day. This impressive breed ranks as the 36th most popular.

RELATED BREEDS



**Shetland
Sheepdog**
Sibling breed



**Australian
Shepherd**
Cousin breed



Bearded Collie
Cousin breed



**Pembroke Welsh
Corgi**
Cousin breed



**Cardigan Welsh
Corgi**
Cousin breed



CHOW CHOW



The Chow Chow (sometimes simply Chow) is an ancient dog breed that probably originated in Mongolia or Siberia before traveling to northern China thousands of years ago. It may have appeared in art there over 2000 years ago as a hunting dog. In China, it is referred to as Songshi Quan, which means "puffy-lion dog". The breed has also been called the Tang Quan, "Dog of the Tang Empire," perhaps because one Emperor owned over 5000 Chows. It is believed that the Chow Chow is one of the native dogs used as the model for the Foo dog, the traditional stone guardians found in front of Buddhist temples and palaces. It is one of the few ancient dog breeds still in existence in the world today.

Fun Fact

A blue tongue and lips aren't the only unique things about the Chow Chow's appearance. Did you know that the blue-coated Chow usually has a blue or gray nose?

RELATED BREEDS



Shiba Inu

Cousin breed



Chinese Shar-Pei

Cousin breed

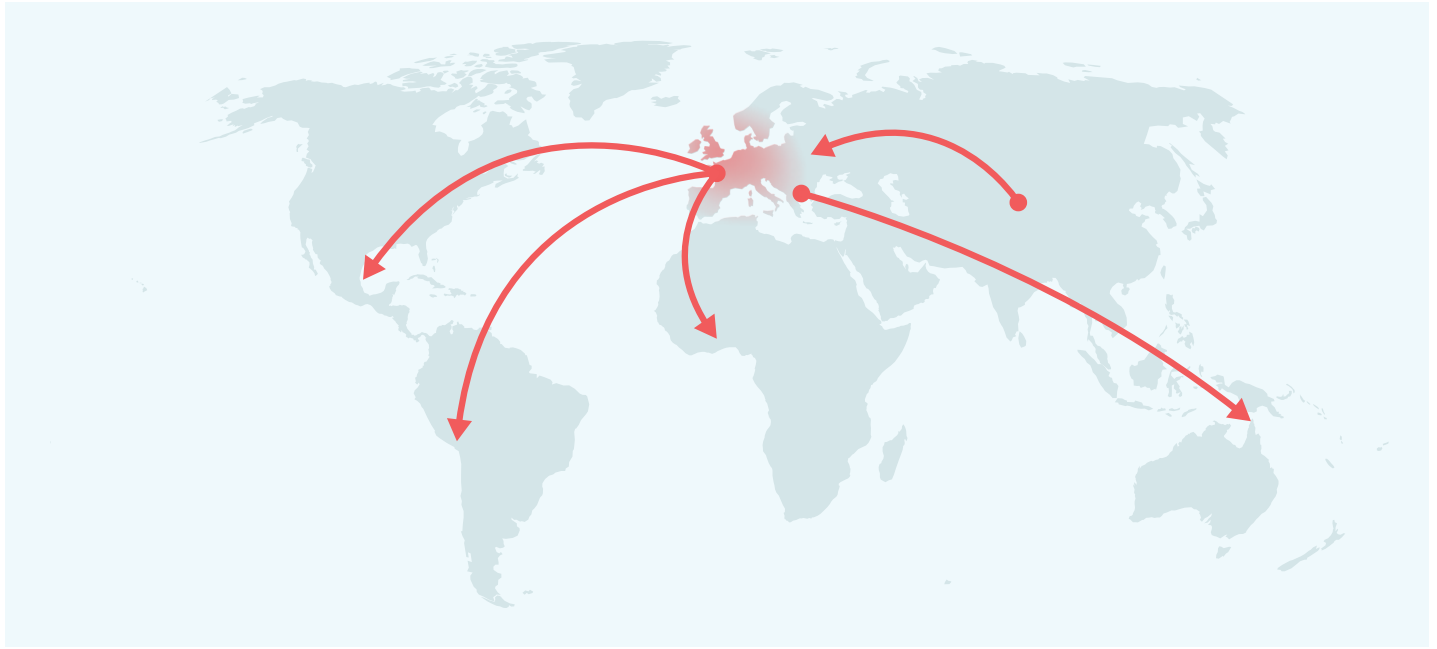


Akita

Cousin breed



MATERNAL LINE



Through Keokee's mitochondrial DNA we can trace her mother's ancestry back to where dogs and people first became friends. This map helps you visualize the routes that her ancestors took to your home. Their story is described below the map.

HAPLOGROUP: A1a

A1a is the most common maternal lineage among Western dogs. This lineage traveled from the site of dog domestication in Central Asia to Europe along with an early dog expansion perhaps 10,000 years ago. It hung around in European village dogs for many millennia. Then, about 300 years ago, some of the prized females in the line were chosen as the founding dogs for several dog breeds. That set in motion a huge expansion of this lineage. It's now the maternal lineage of the overwhelming majority of Mastiffs, Labrador Retrievers and Gordon Setters. About half of Boxers and less than half of Shar-Pei dogs descend from the A1a line. It is also common across the world among village dogs, a legacy of European colonialism.

HAPLOTYPE: A224

Part of the large A1a haplogroup, this haplotype is found in village dogs in Peru, Fiji, and Namibia. Among breeds, we see this haplotype most frequently in Cavalier King Charles Spaniels, Mastiffs, and Boston Terriers.



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HEALTH AND TRAITS

These features are unavailable with the kit that you purchased, though you can upgrade to include these results in Keokee's profile at any time.